ISOMORPHISM METHOD AND APPARATUS

ABSTRACT OF DISCLOSURE

          Disclosed is an algorithm and a computation system that,

5   when using the stated simplification approach, can heuristically

or iteratively determine identicalness of two electric circuits

by setting a minimum network scope value and: FIRST, generating

signatures defining interconnected circuit components of the set

scope value and having a prime vertex; SECOND, determining which

10   of those signatures are unique to a source circuit; THIRD,

eliminating from further consideration unique signature vertices

that match with a signature in the target circuit; and FOURTH,

moving to an identicalness discrepancy list those unique

signature vertices that do not match.   Then, repeating the

15   process with incremented scope values until only symmetrical and

unevaluated vertices remain to be matched or added to the

discrepancy list.